

## Title (en)

METHOD FOR PRODUCING AN OBJECT FROM A METAL OR AN ALLOY BY MEANS OF LARGE PLASTIC DEFORMATION AND PRESSING TOOL THEREFOR

## Title (de)

VERFAHREN ZUR HERSTELLUNG EINES GEGENSTANDES AUS EINEM METALL ODER EINER LEGIERUNG MITTELS STARKER PLASTISCHEN VERFORMUNG SOWIE PRESSWERKZEUG HIERFÜR

## Title (fr)

PROCÉDÉ DE PRODUCTION D'UN OBJET EN MÉTAL OU EN ALLIAGE PAR DÉFORMATION PLASTIQUE SÉVÈRE ET OUTIL DE MOULAGE PAR COMPRESSION CORRESPONDANT

## Publication

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## Application

**EP 11810543 A 20111116**

## Priority

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## Abstract (en)

[origin: WO2012071600A1] The invention relates to a method for producing an object from a metal or an alloy, in particular a titanium alloy, wherein in a pressing process a pin (1) is pressed through a first channel (3) of a pressing tool (2) and a second channel (4) of the pressing tool connected to the first channel optionally several times, whereupon the object, such as an implant, is created from the pressed pin (1). According to the invention, the pin (1) is pressed through a second channel (4) having a smaller cross-sectional diameter than the first channel (3) at least at one point. The invention further relates to an object, in particular an implant, which can be obtained according to a method according to the invention, and to a pressing tool (2) that is suitable for carrying out a method according to the invention.

## IPC 8 full level

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## Citation (examination)

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- TAIK NAM KIM ET AL: "In vitro biocompatibility of equal channel angular processed (ECAP) titanium; In vitro biocompatibility of ECAP titanium", BIOMEDICAL MATERIALS, INSTITUTE OF PHYSICS PUBLISHING, BRISTOL, GB, vol. 2, no. 3, 1 September 2007 (2007-09-01), pages S117 - S120, XP020125634, ISSN: 1748-605X, DOI: 10.1088/1748-6041/2/3/S06

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